CLAIM LISTING

1. (Currently Amended) A method of accessing a memory having one or more banks, each bank having one or more rows, for processing MPEG video data, said method comprising:

requesting a memory controller to transfer the MPEG video data used for processing; [and]

determining in the memory controller which of said rows for which of said banks are to be prepared with a row address select (RAS) operation, so as to efficiently transfer the MPEG video data; and

tailoring in the memory controller a sequence of transferring the MPEG video data to improve transfer efficiency.

- (Original) The method of claim 1, wherein a minimum number of wasted clocks can be realized through the determining step in the memory controller.
- 3. (Original) The method of claim 1, wherein a maximum burst efficiency can be achieved through the determining step in the memory controller.

4. (Cancelled)

- (Original) The method of claim 4, wherein the tailoring is based on a size of video images represented by the MPEG video data.
- 6. (Original) The method of claim 4, wherein the tailoring is based on a type of memory organization.

- 7. (Original) The method of claim 4, wherein the tailoring results in a selection of a mode of operation.
- 8. (Original) The method of claim 4, wherein the tailoring results in selection of a starting address for accessing the memory.
- 9. (Currently Amended) A system for processing MPEG video data, comprising:
- a memory having one or more banks, each bank having one or more rows;
- a memory controller for determining which of said rows for which of said banks are to be prepared with a row address select (RAS) operation, so as to efficiently transfer the MPEG video data, wherein the memory controller tailors a sequence of transferring the MPEG video data to improve transfer efficiency; and
- . a video decoder for requesting the memory controller to transfer the MPEG video data, and for processing the transferred MPEG data.
- 10. (Original) The system of claim 9, wherein a minimum number of wasted clocks can be realized through determining which of said rows for which of said banks are to be prepared with the RAS operation.
- 11. (Original) The system of claim 9, wherein a maximum burst efficiency can be achieved through determining which of said rows for which of said banks are to be prepared with the RAS operation.

12. (Cancelled)

- 13. (Original) The system of claim 12, wherein the memory controller tailors the sequence based on a size of video images represented by the MPEG video data.
- 14. (Original) The system of claim 12, wherein the memory controller tailors the sequence based on a type of memory organization.
- 15. (Original) The method of claim 12, wherein the memory controller selects a mode of operation to efficiently transfer the MPEG video data.
- 16. (Original) The method of claim 12, wherein the memory controller selects a starting address for accessing the memory to efficiently transfer the MPEG video data.